

Brazos 2020 Vision

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Brazos Valley Council of Governments



Brazos Valley Council of Governments

- The Brazos Valley Council of Governments (BVCOG) is a multi-purpose organization of local governments originally designated in 1966.
- The BVCOG consists of seven counties in Central Texas: Brazos, Burleson, Grimes, Leon, Madison, Robertson, Washington
- BVCOG currently manages 70 Federal and State grants to deliver services throughout the region such as Regional 911, Housing Choice Voucher Program, Economic Development, Workforce Development, Homeland Security, Area Agency on Aging.

Profile of Brazos 2020 Vision

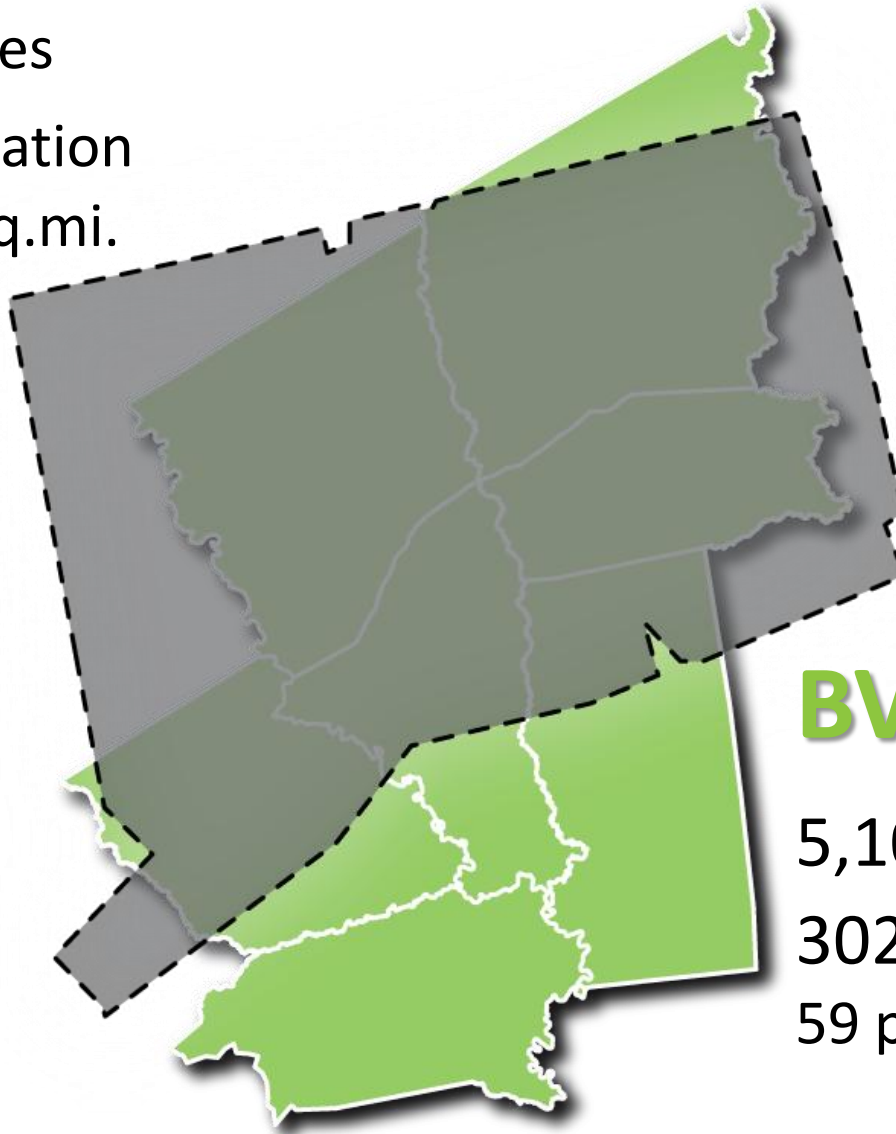
- Brazos 2020 Vision, Inc. is a non-profit corporation with the goal of **establishing a health care grade broadband network** to provide affordable connectivity to **health care facilities** across the mostly rural Brazos Valley
- Brazos 2020 Vision will lay the foundation for a broadband network serving all community anchors in the Brazos Valley

Connecticut

5,543 square miles

3,574,097 population

645 persons per sq.mi.



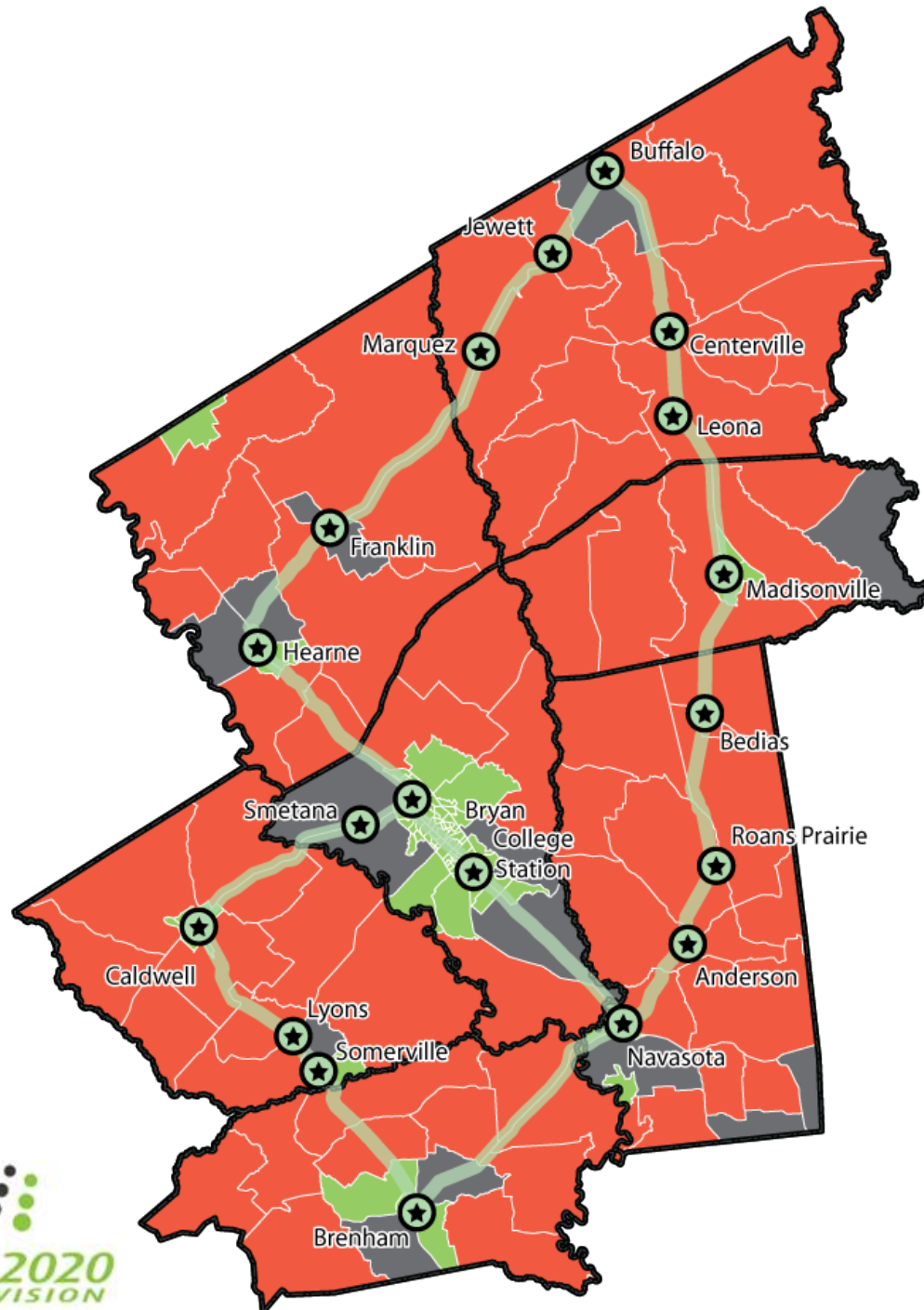
BVCOG

5,105 square miles

302,731 population

59 persons per sq.mi.

Population Density



Less than 39.8
people per square
mile

39.8 - 79.5 people
per square mile

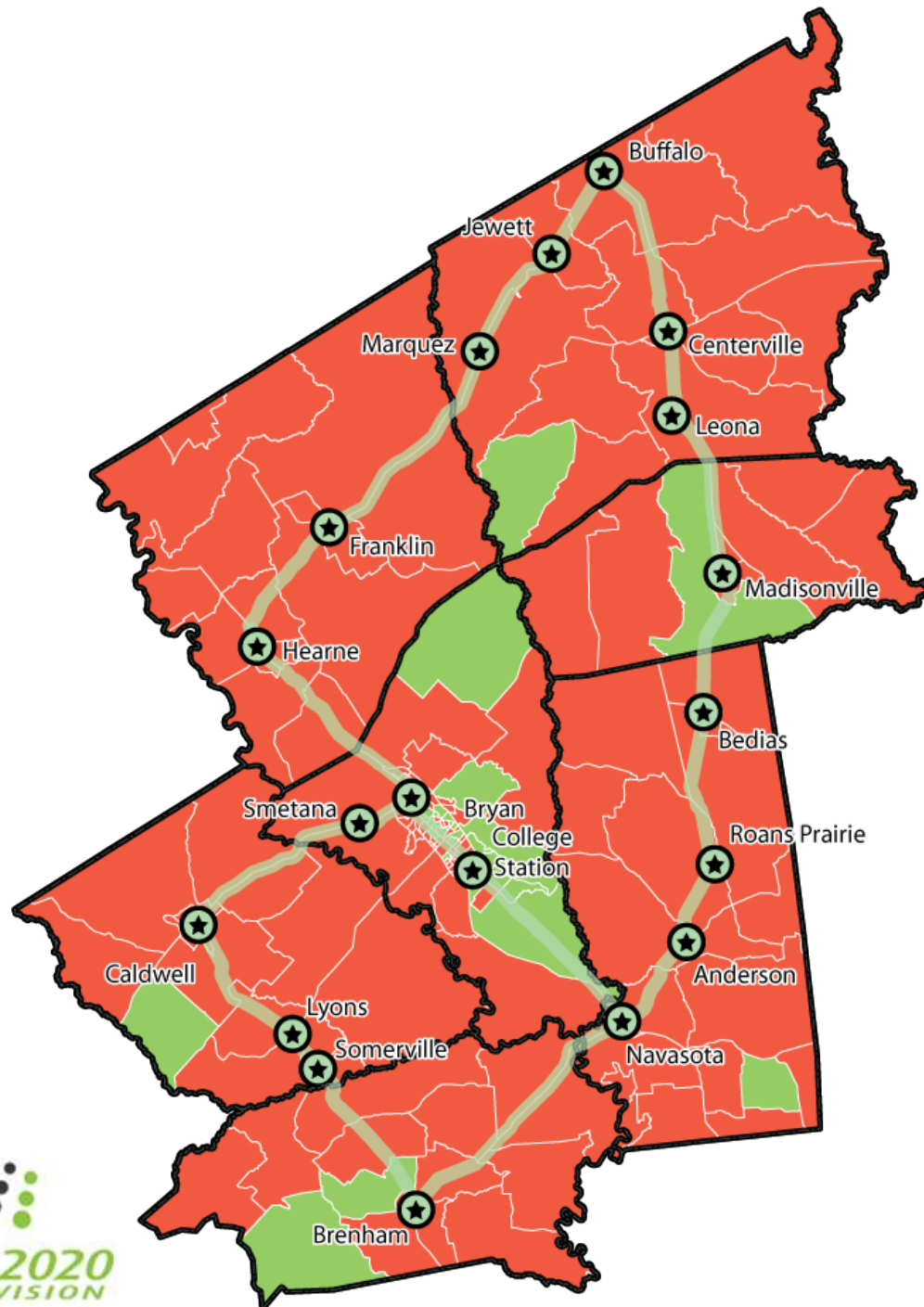
79.6 or more
people per square
mile


95% of the Brazos Valley has a **lower population density than the national value of 79.6 people per square mile.*


86% of the Brazos Valley has a population density **less than half of the national value.*



Per Capita Income

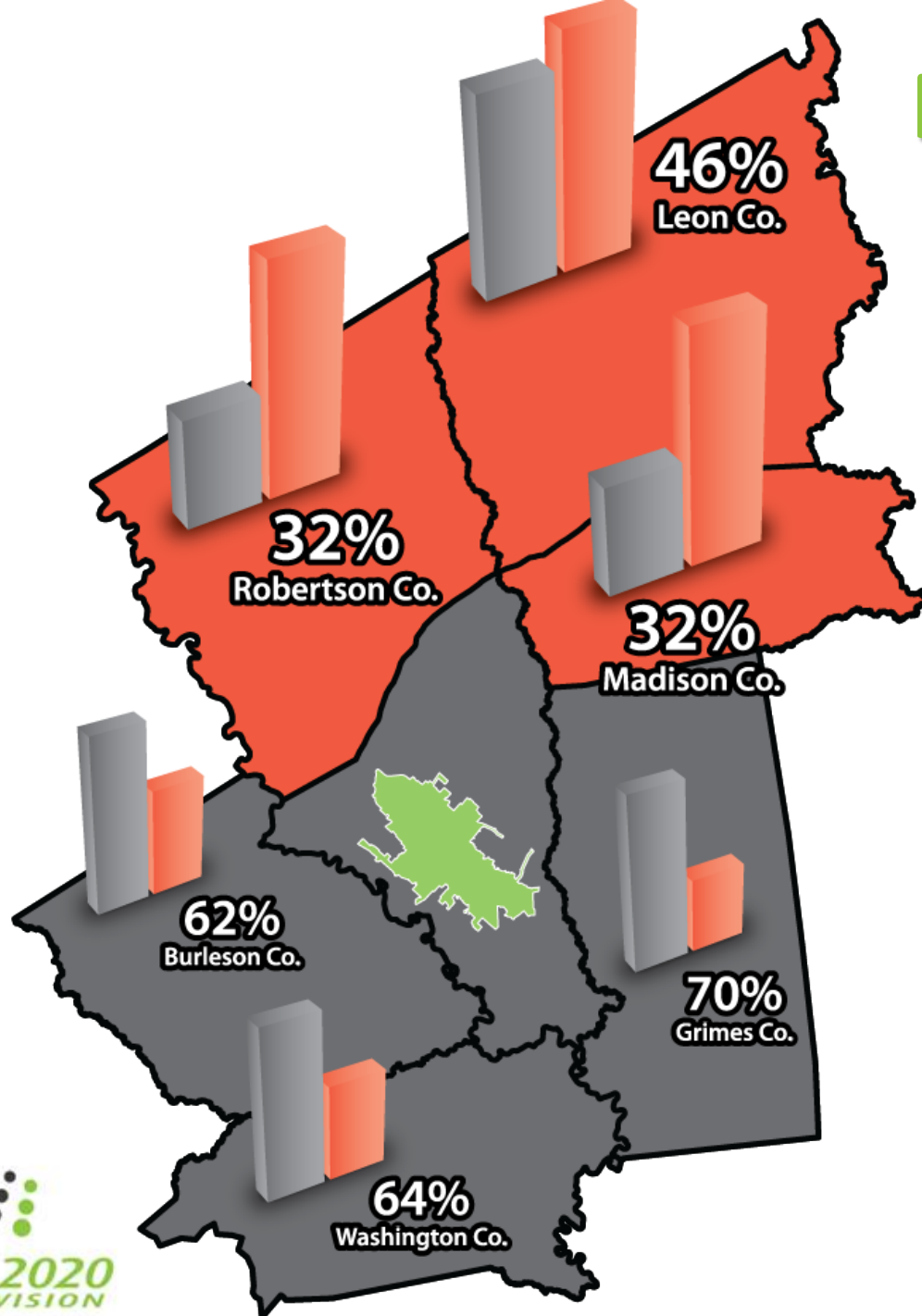





 Block Group with PCI less than \$21,587.

 Block Group with PCI \$21,587 or higher.

90% of the Brazos Valley has a per capita income **lower than the national value of \$21,587.*

Percent Served



-  Less than 47% with access to high-speed internet service
-  47% - 93% with access to high-speed internet service
-  94% or more with access to high-speed internet service

What is Health Care Grade Broadband?

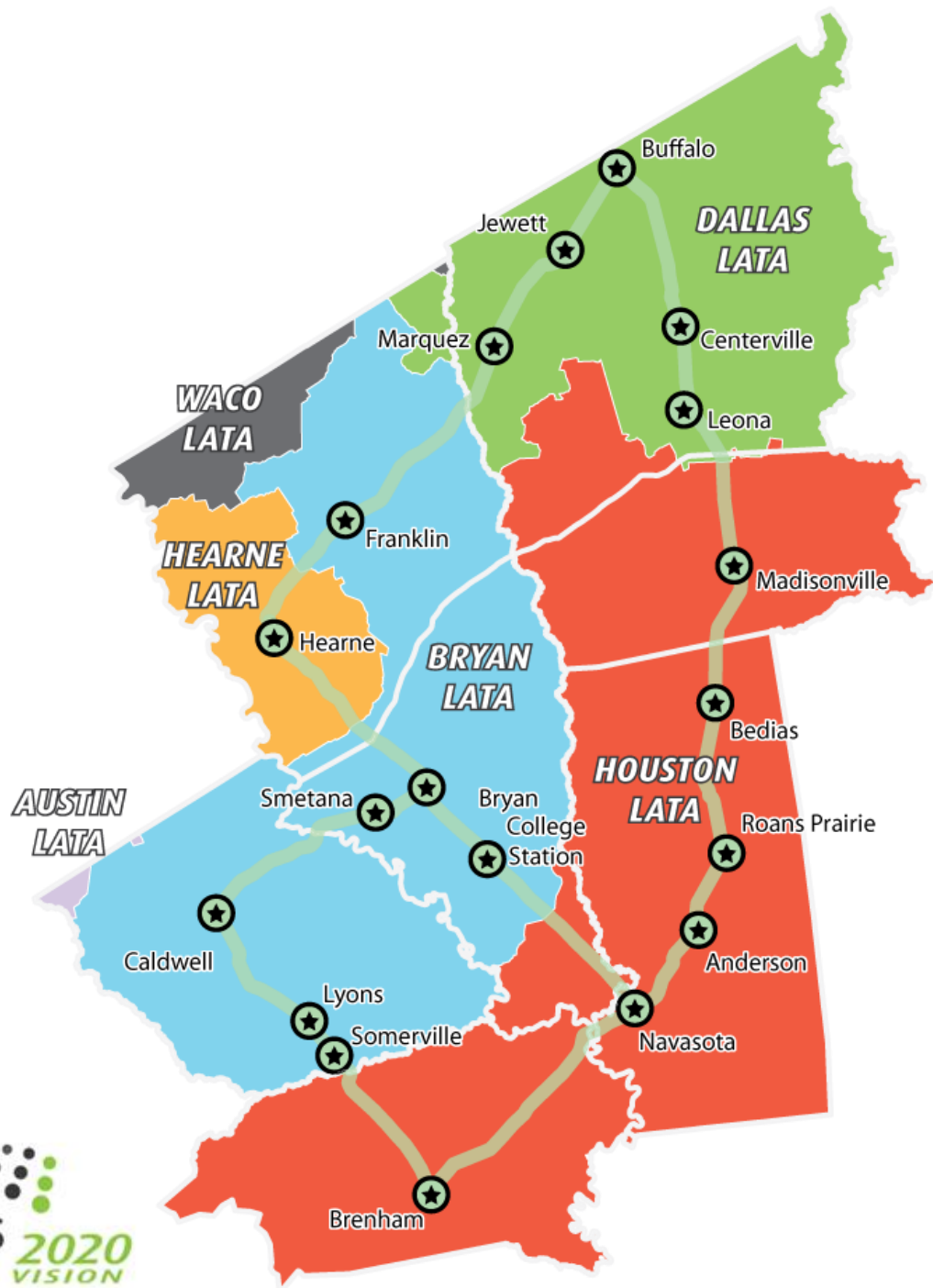
- Health Care applications require networks with:
 - High Capacity
 - High Availability (24-7-365)
 - High Quality
 - Physical Redundancy insures health care networks are available when they are needed most
- 4 Mbps insufficient for most healthcare applications
 - Video conferencing and digital lab files require min. 10 Mbps
 - 100 Mbps for large providers
 - 1 Gig for large hospitals

Need for Affordable High-Capacity Broadband Services in Brazos Valley

Brazos Valley health care facilities and other community anchors do NOT currently have access to affordable health care grade broadband services

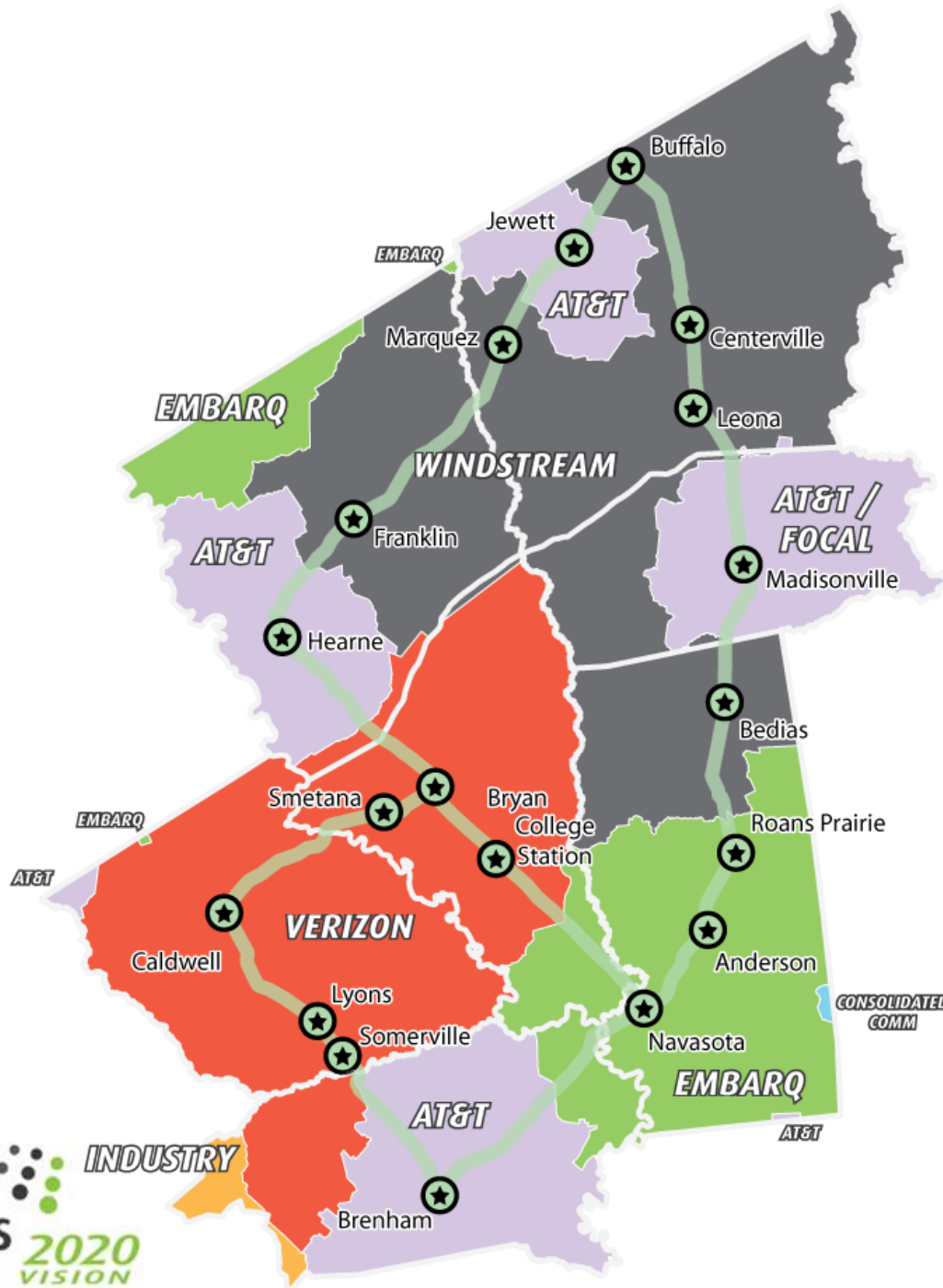
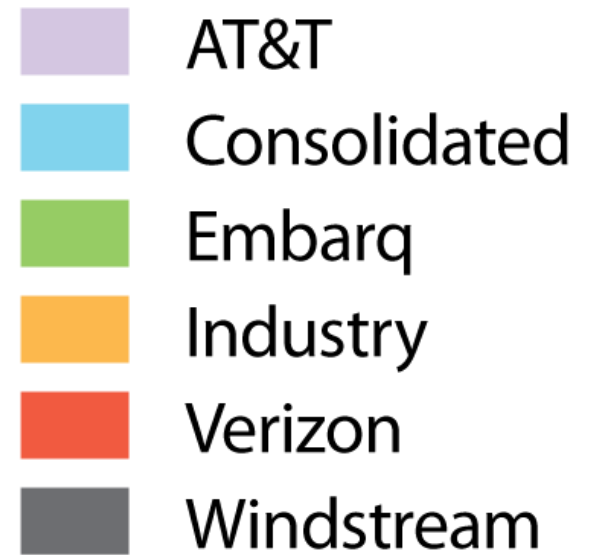
- Lack of competitive pricing
- Shortage of high capacity services
- Outdated LATA boundaries inhibit investment

LATA Distribution



-  Austin
-  Bryan
-  Dallas
-  Hearne
-  Houston
-  Waco

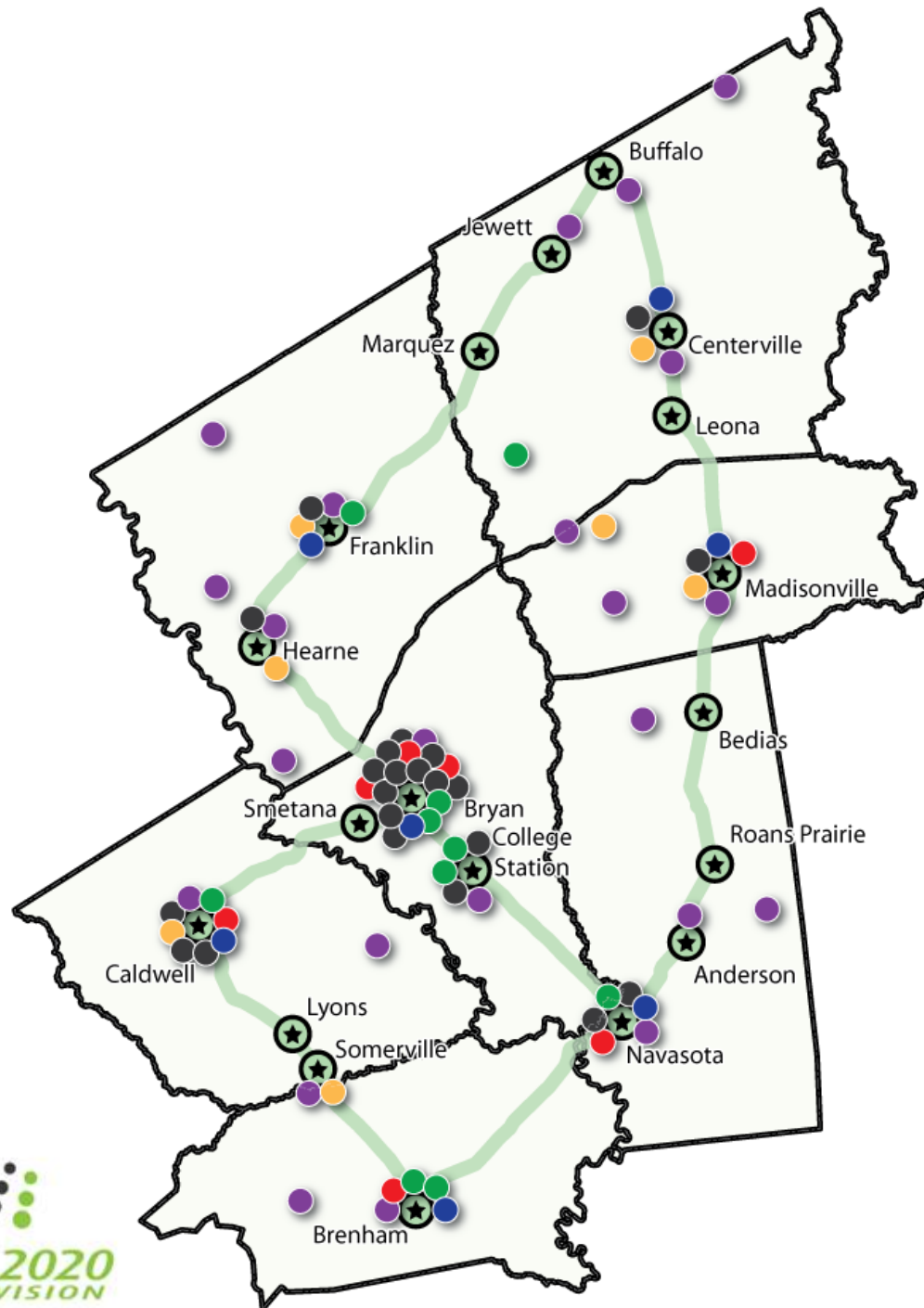
TELCOM Distribution



Healthcare Providers

-  Hospital
-  Clinic
-  EMS
-  Jail or Prison
-  School
-  Other Medical

**65 of 76 medical facilities are on the Brazos 2020 Vision proposed fiber optic path.*



Complimentary Programs: CAF Will Support Providers; RHC Should Support Networks

- Statewide or regional health care networks may span multiple LATAs and cannot be effectively served by a single carrier.
 - Existing providers lack incentives to support the creation of health care grade networks that span or traverse competitor service areas.
 - Near-Term RHC infrastructure funding will further incentivize providers to deliver health care-grade broadband.

Balancing the Needs of Rural Health Care Networks Against Overlapping USF Programs

- Competitive bidding
 - Assures the efficient use of USF funds *provided anchor institutions have the option to build when* leasing existing facilities is not economical
- RHC funded infrastructure
 - Does not require ongoing subsidies
 - Ensures health care providers rather than carriers dictate service levels.
- Leasing capacity to existing providers
 - fosters sustainability
 - enhances broadband ecosystem